

Fig.1

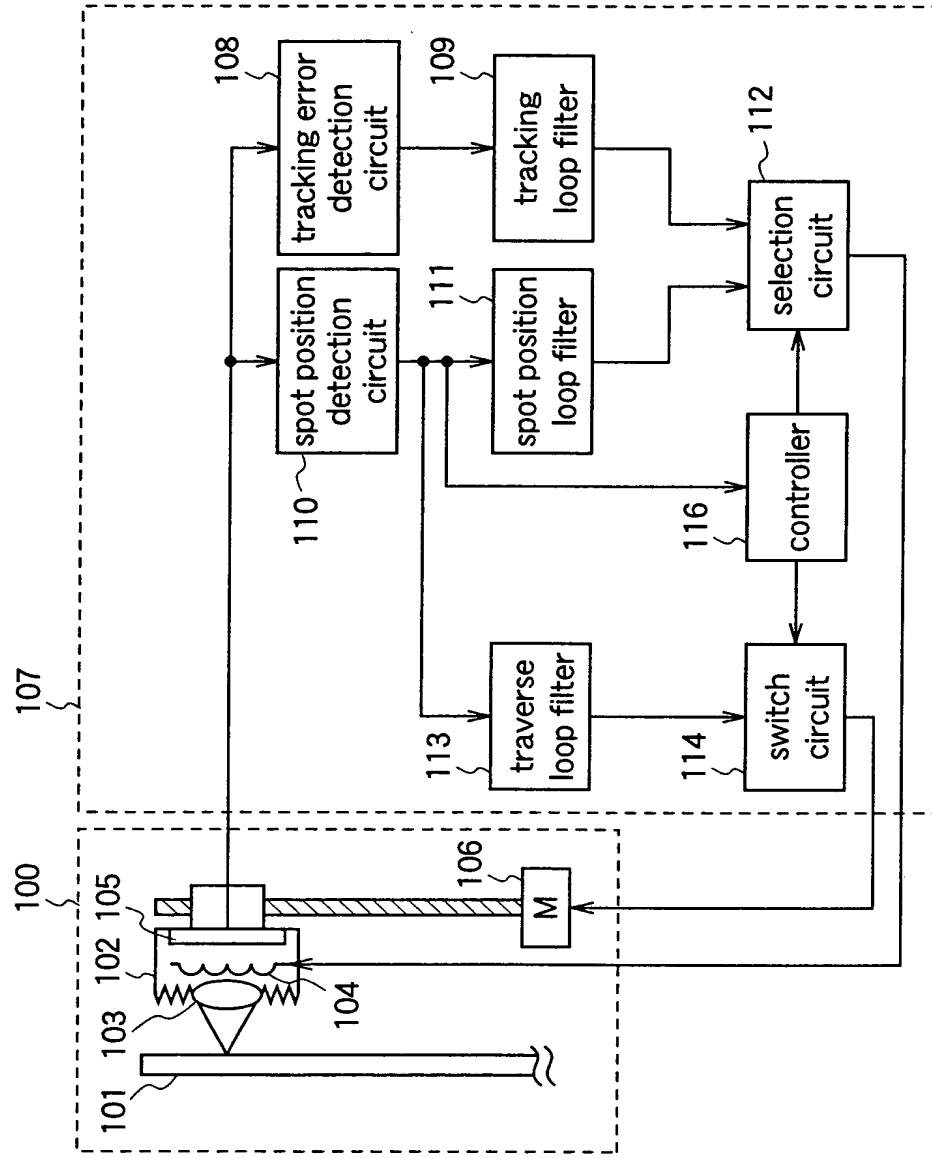


Fig.2

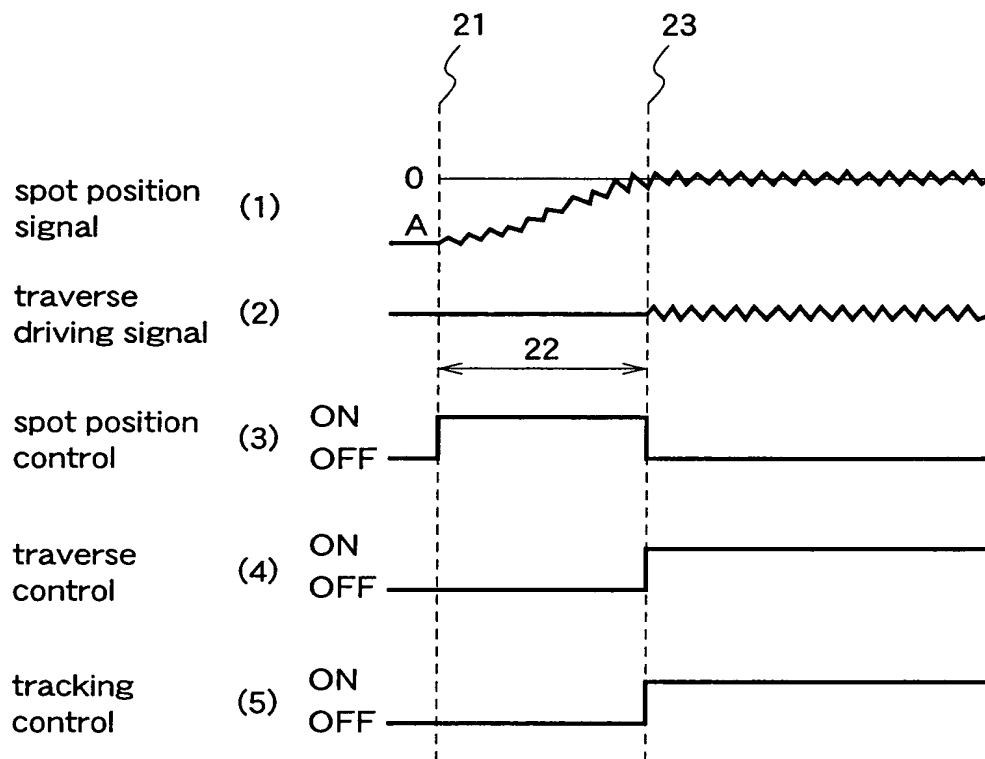


Fig.3

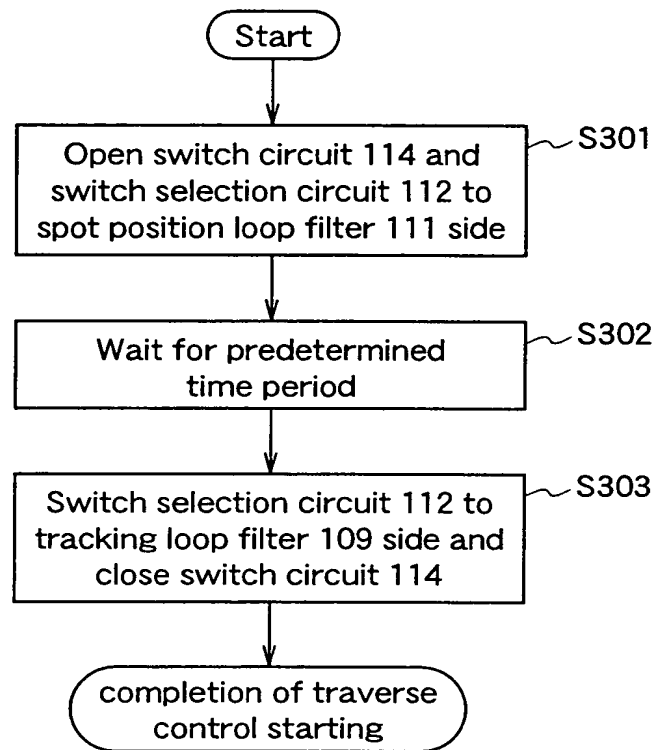


Fig.4

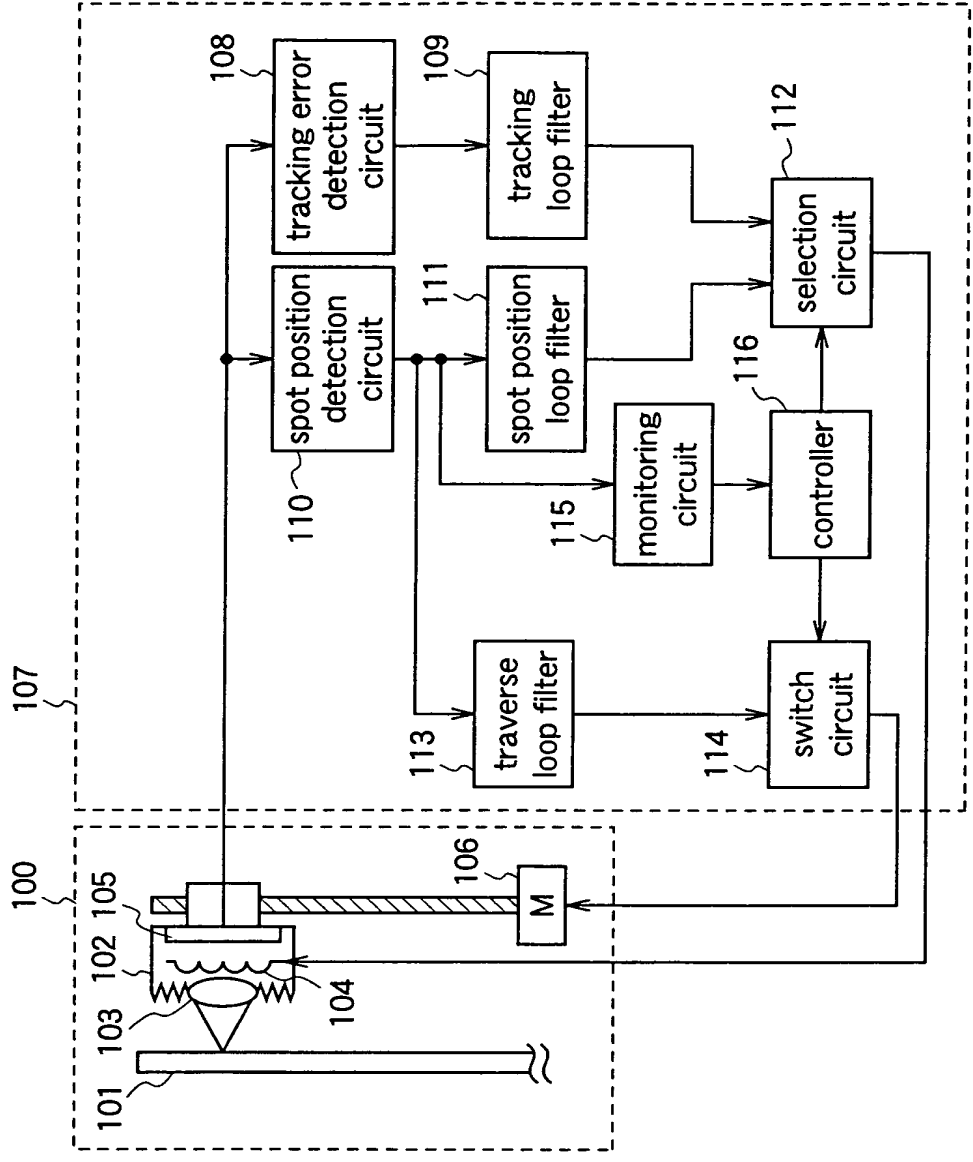


Fig.5

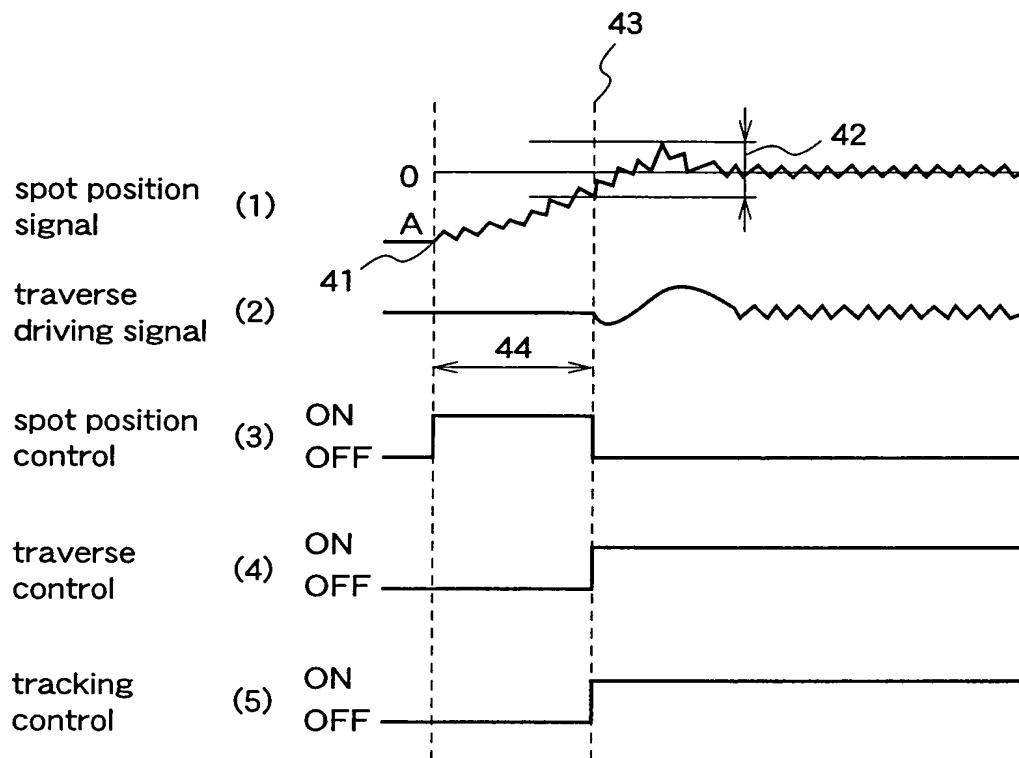


Fig.6

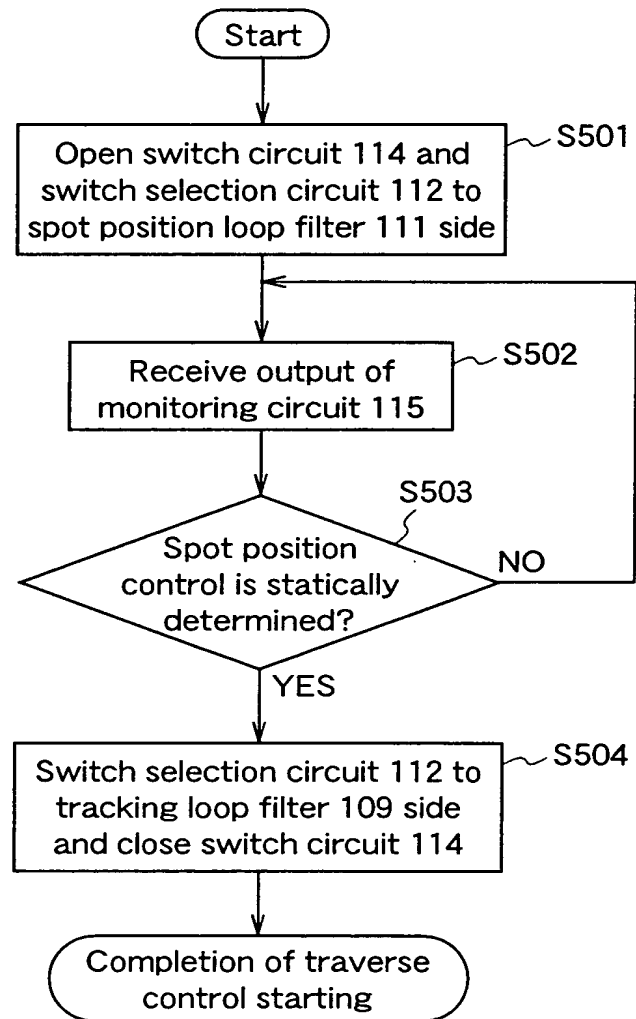


Fig.7

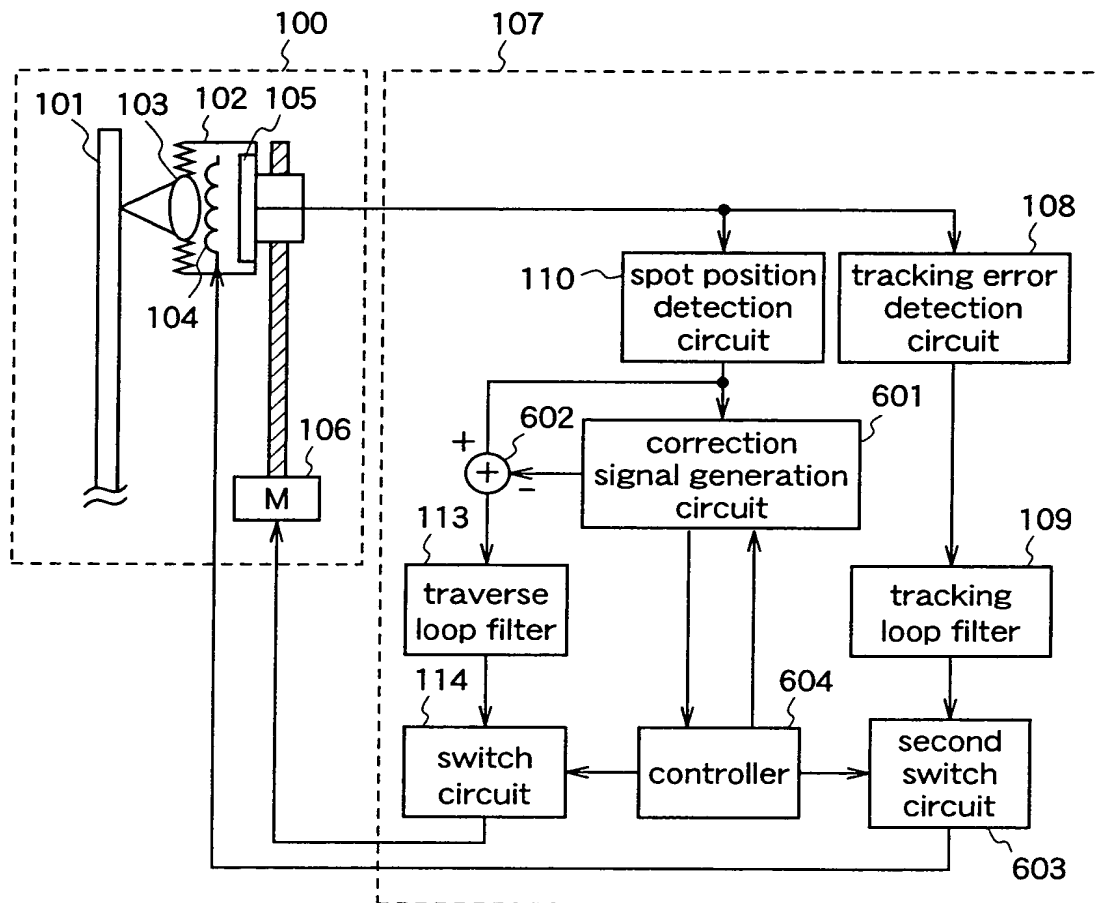


Fig.8

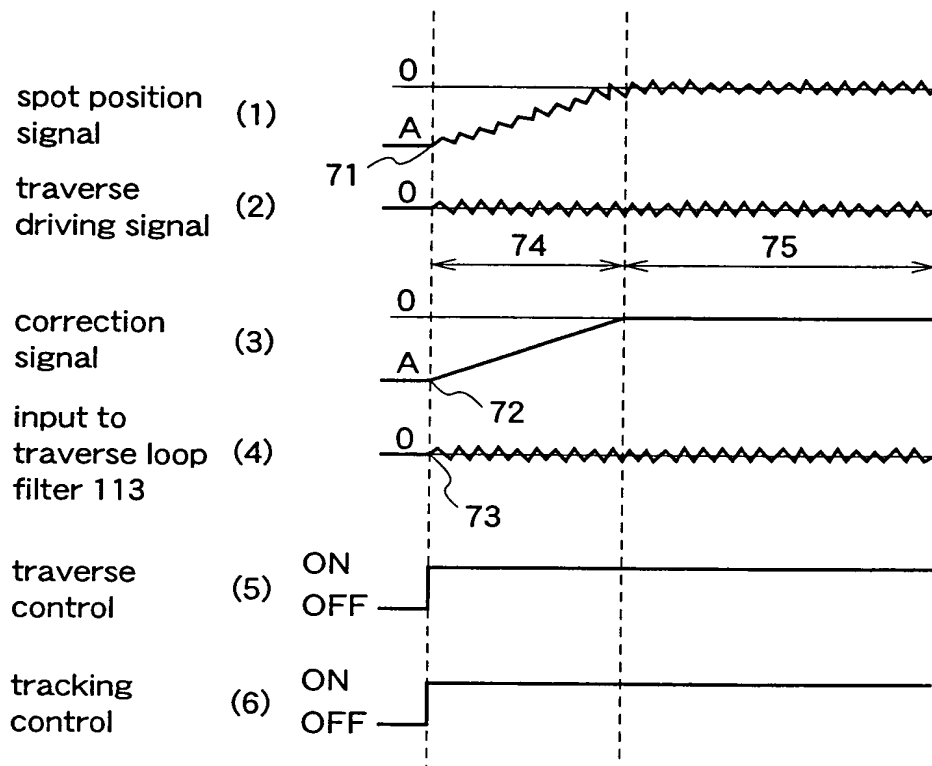




Fig.9

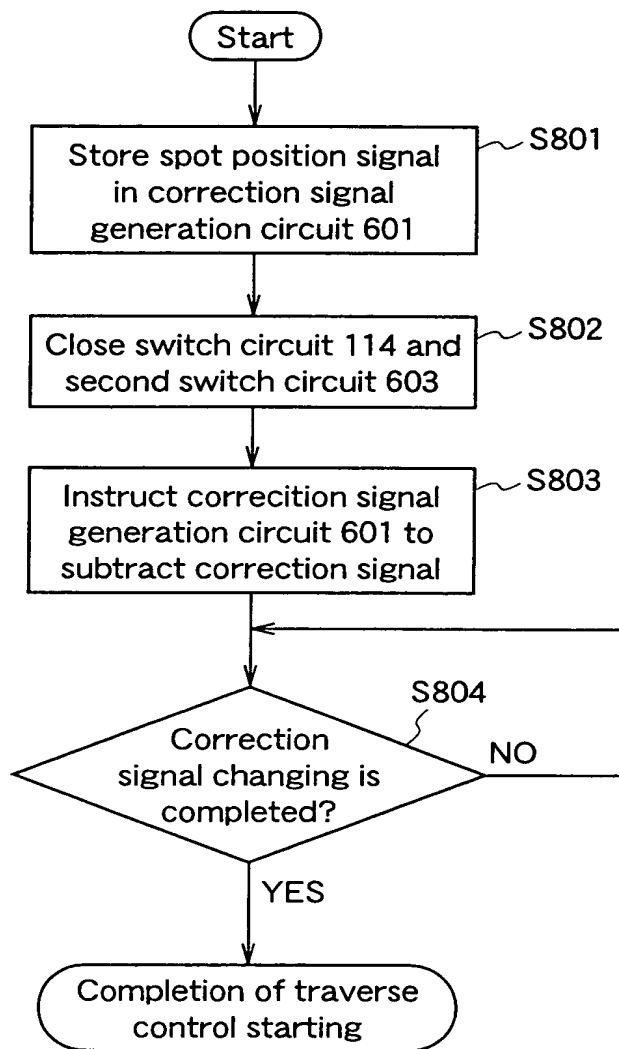


Fig.10

91  
correction  
signal (1)

92  
correction  
signal (2)

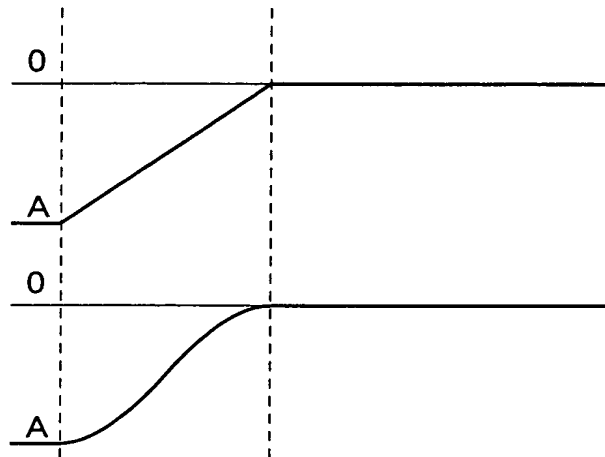


Fig.11

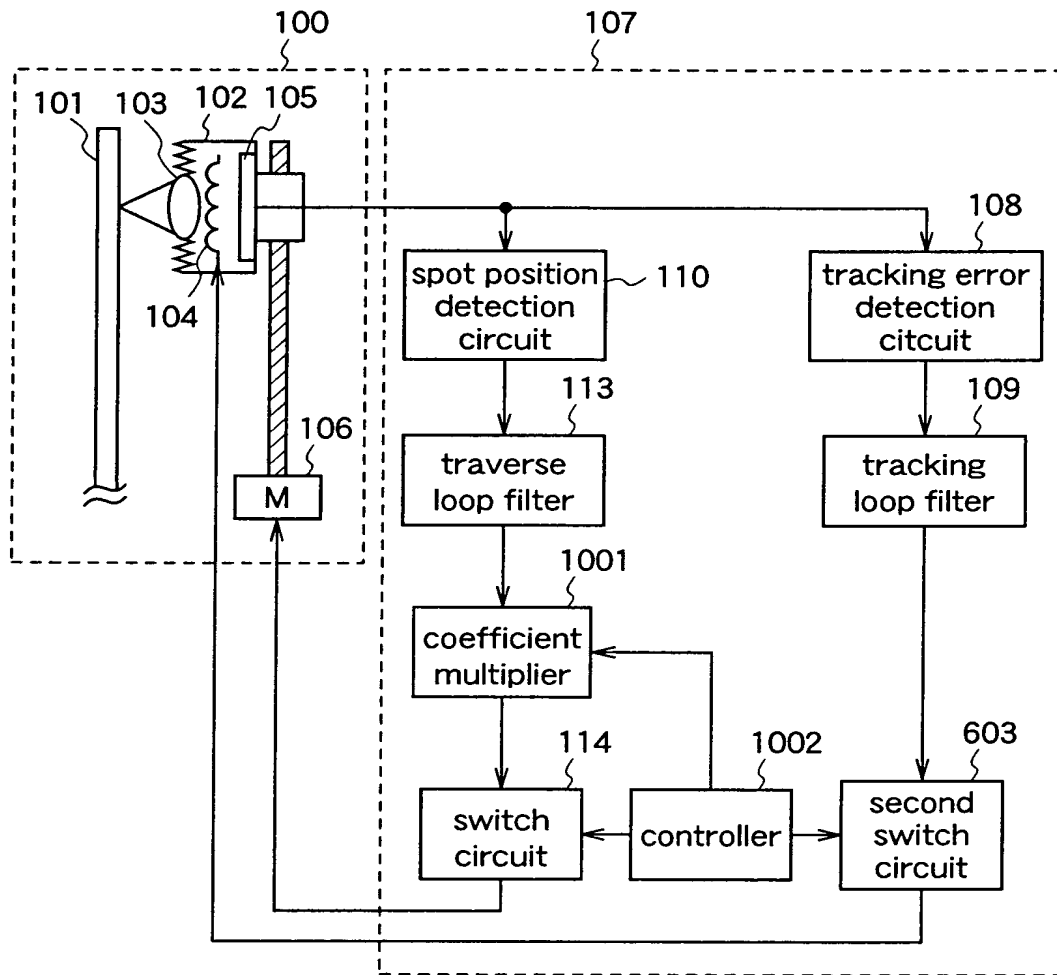


Fig.12

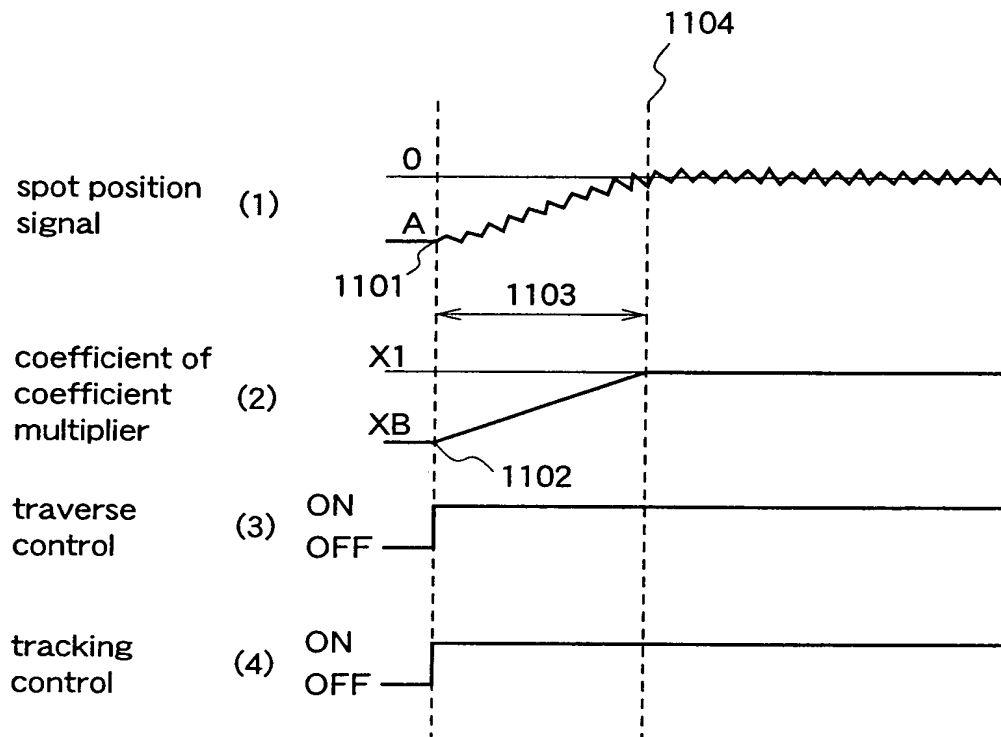


Fig.13

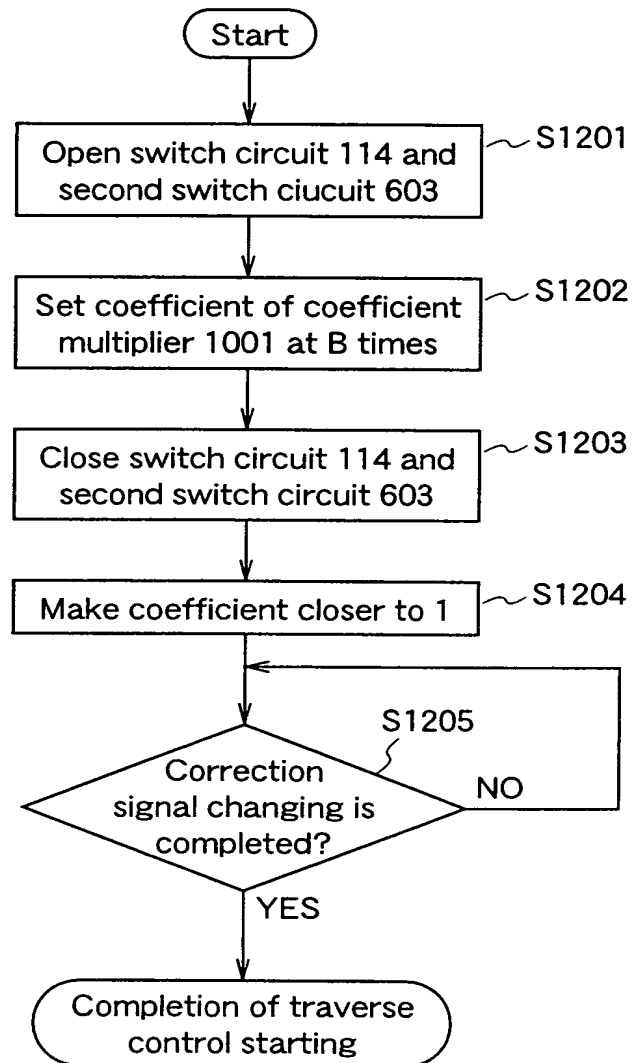
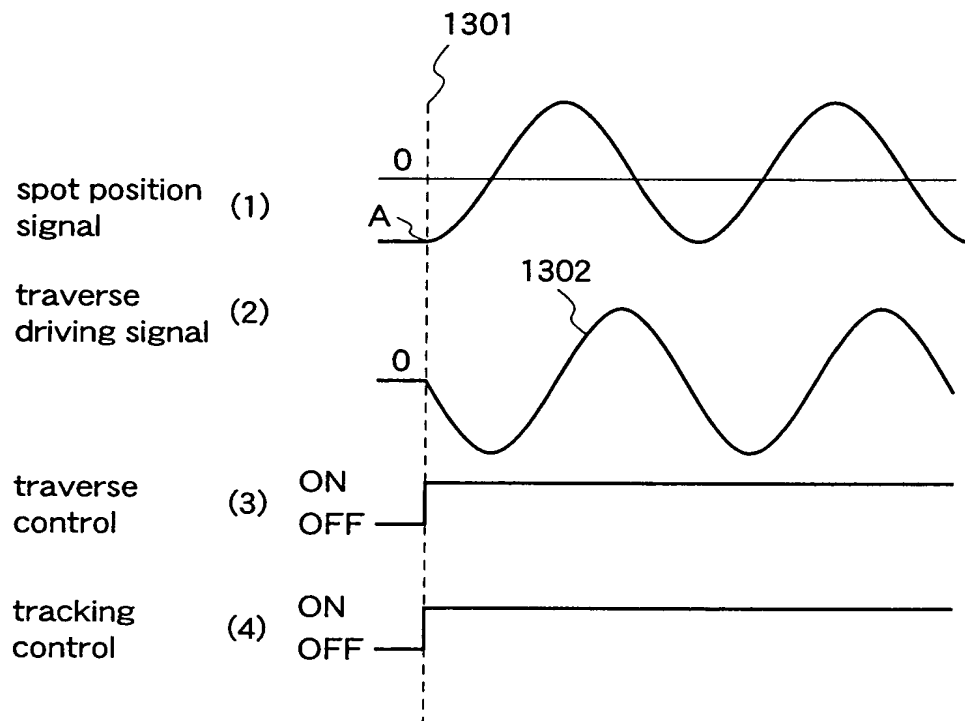
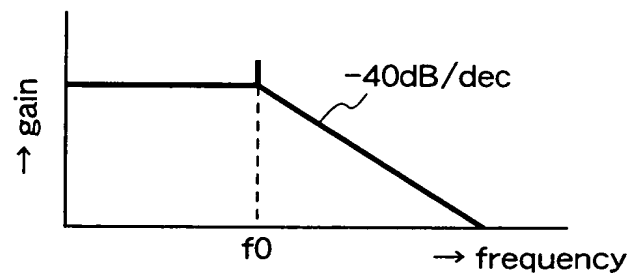


Fig.14 Prior Art



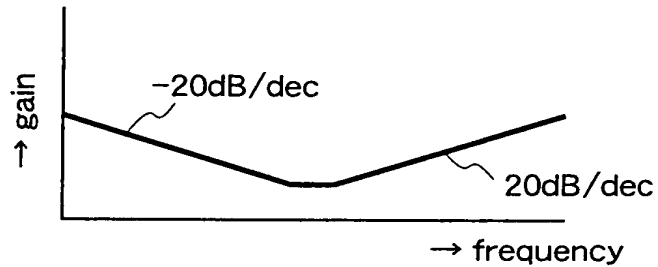
**Fig.15 (a)**

open-loop gain  
characteristics  
without spot position  
loop filter 111



**Fig.15 (b)**

gain characteristics  
of spot position  
loop filter 111



**Fig.15 (c)**

open-loop  
characteristics of  
whole spot  
position control

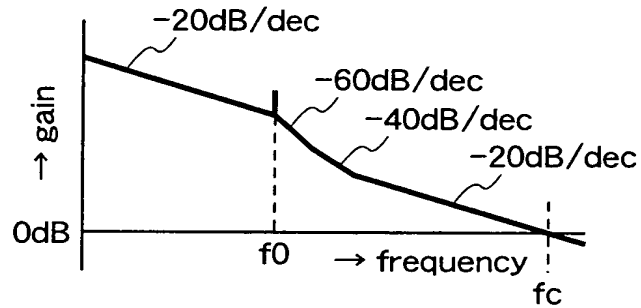
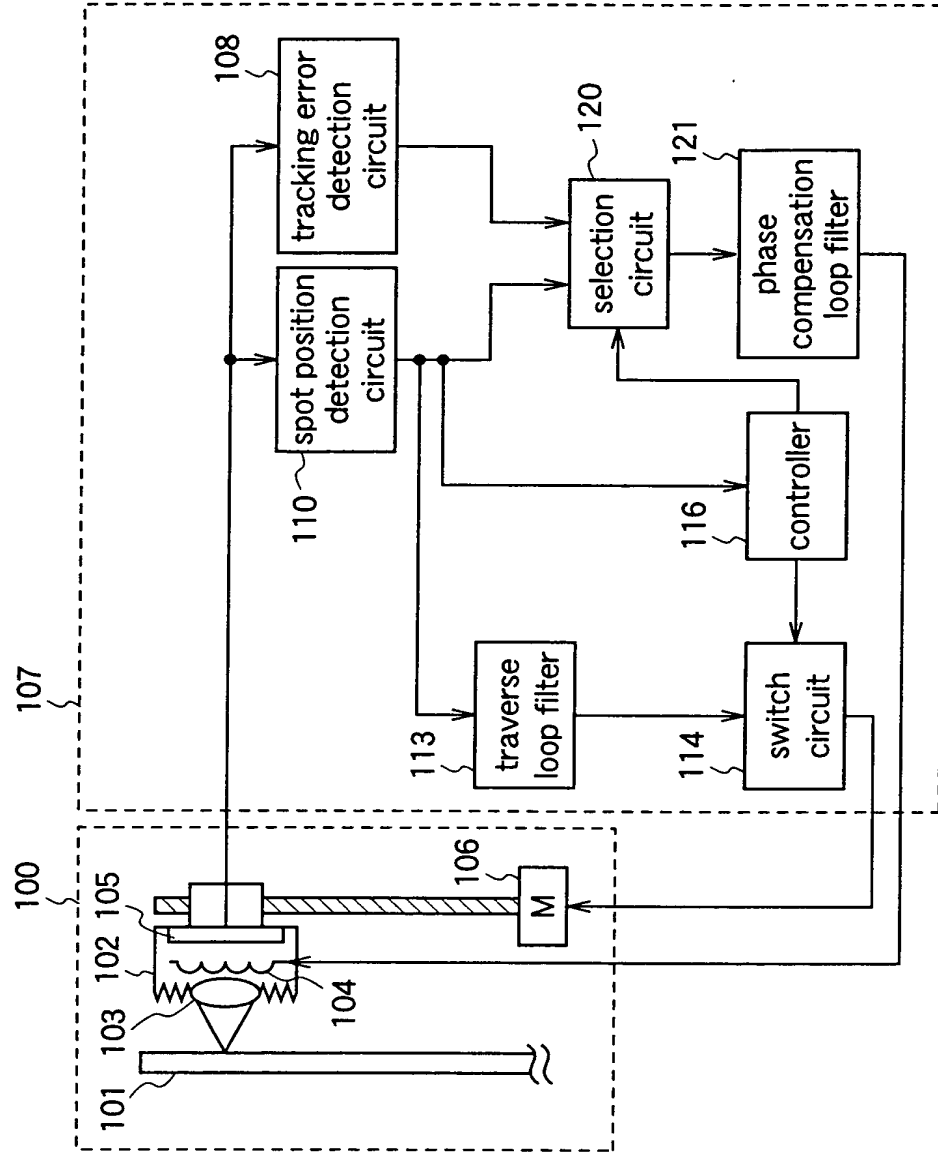
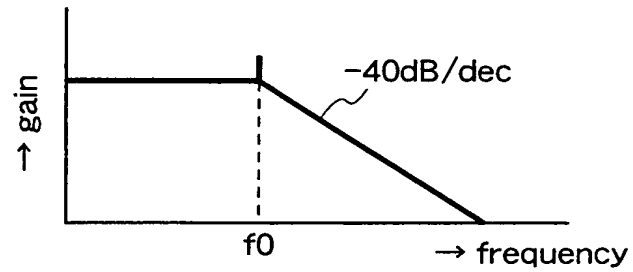


Fig.16

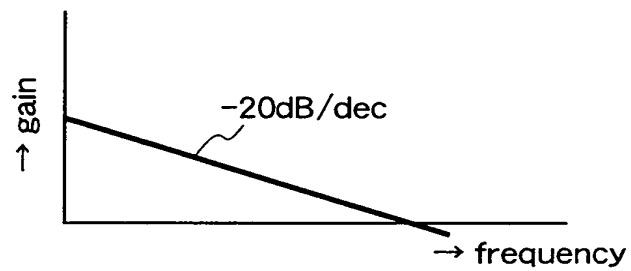




**Fig.17 (a)**  
open-loop gain  
characteristics  
without spot position  
loop filter 111



**Fig.17 (b)**  
gain characteristics  
of spot position  
loop filter 111



**Fig.17 (c)**  
open-loop  
characteristics of  
whole spot  
position control

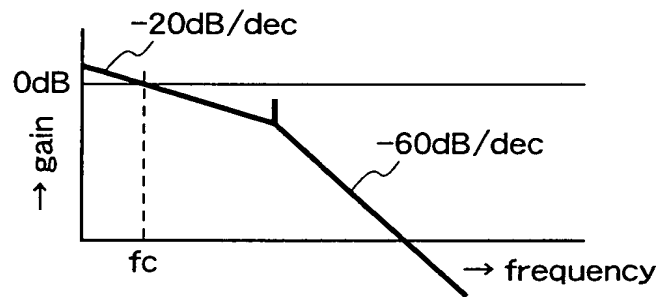


Fig.18 (a)

open-loop gain  
characteristics  
without spot position  
loop filter 111

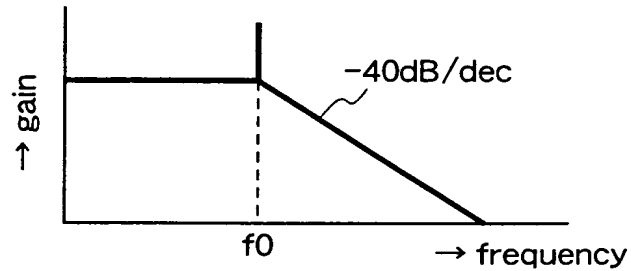


Fig.18 (b)

gain characteristics  
of spot position  
loop filter 111

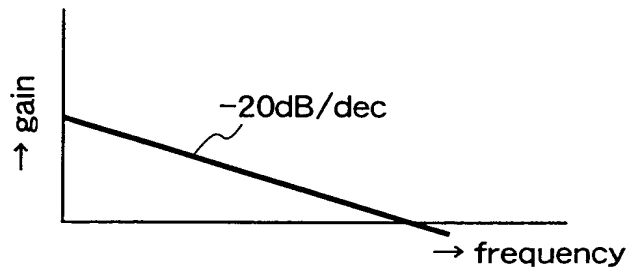


Fig.18 (c)

open-loop  
characteristics of  
whole spot  
position control

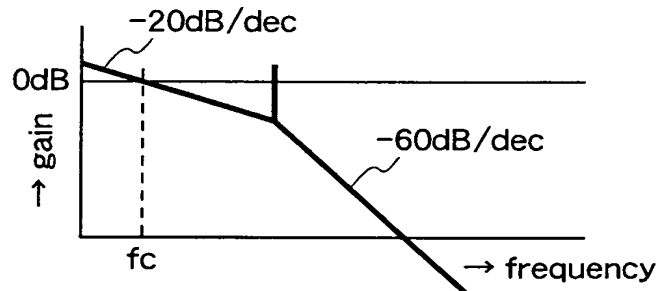


Fig.18 (d)

gain characteristics  
of changed spot  
position loop filter 111

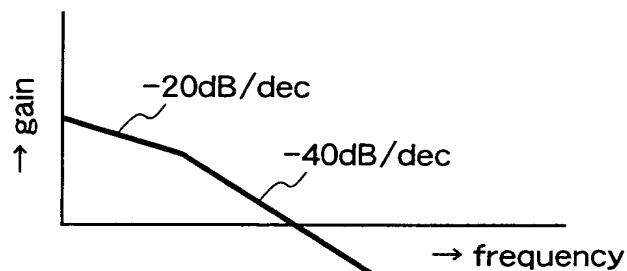
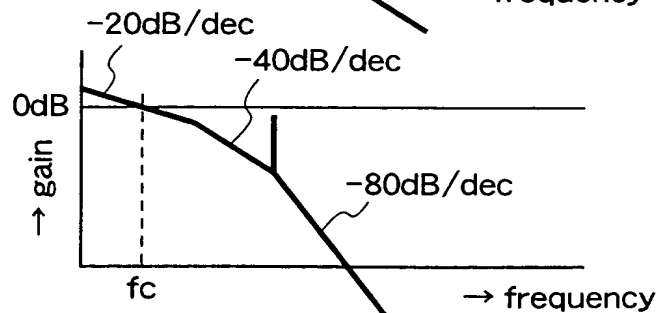
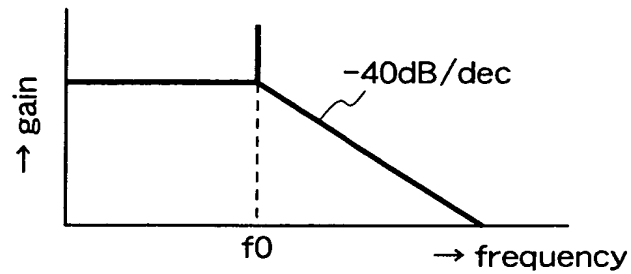


Fig.18 (e)

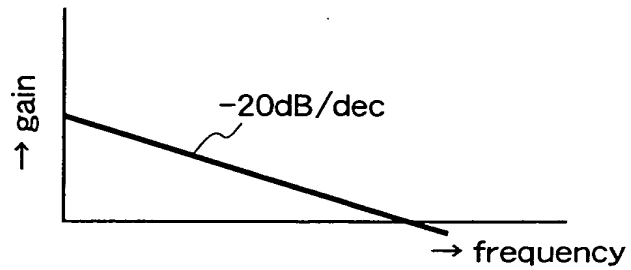
open-loop  
characteristics of  
whole changed spot  
position control



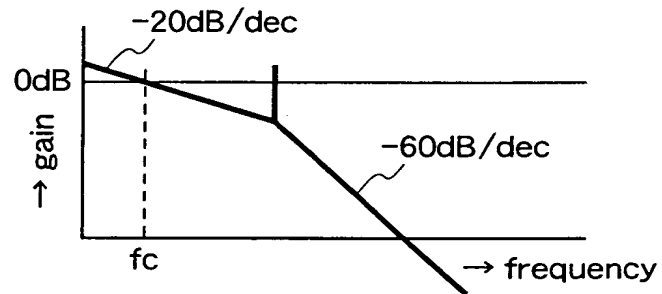
**Fig.19 (a)**  
open-loop gain  
characteristics  
without spot position  
loop filter 111



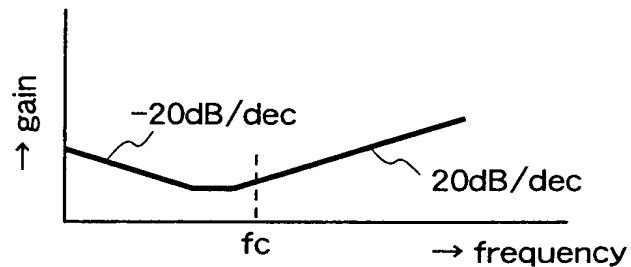
**Fig.19 (b)**  
gain characteristics  
of spot position  
loop filter 111



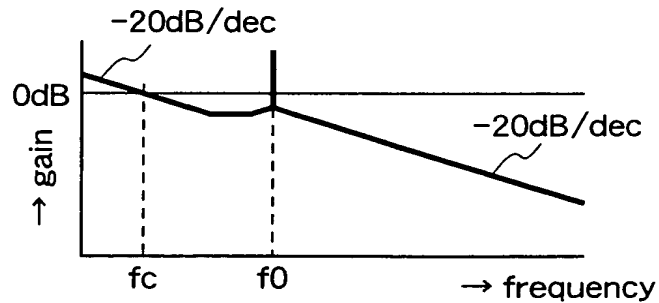
**Fig.19 (c)**  
open-loop  
characteristics of  
whole spot  
position control



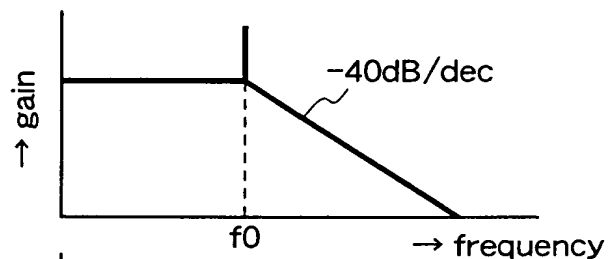
**Fig.19 (d)**  
gain characteristics  
of spot position  
loop filter 111



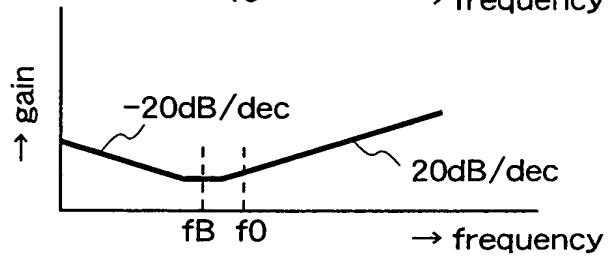
**Fig.19 (e)**  
open-loop  
characteristics of  
whole spot  
position control



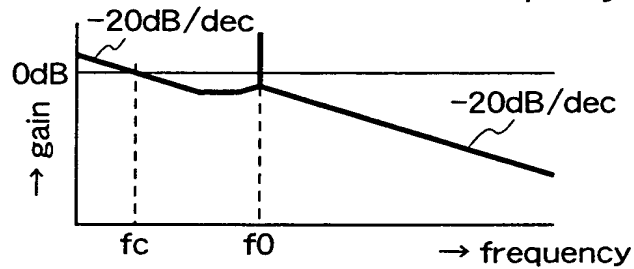
**Fig.20 (a)**  
open-loop gain  
characteristics  
without spot position  
loop filter 111



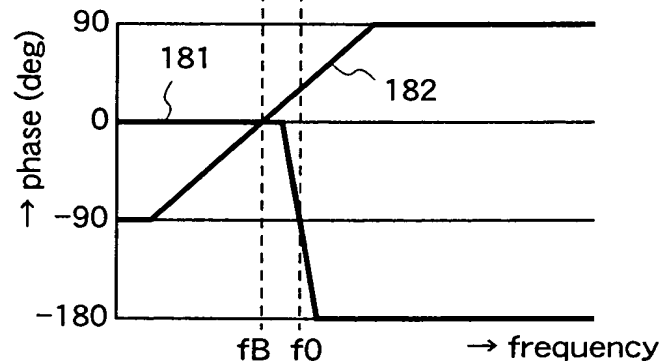
**Fig.20 (b)**  
gain characteristics  
of spot position  
loop filter 111



**Fig.20 (c)**  
open-loop  
characteristics of  
whole spot  
position control



**Fig.20 (d)**  
open-loop phase  
characteristics 181  
without spot position  
loop filter 111 and  
phase characteristics  
182 of spot position  
loop filter 111



**Fig.20 (e)**  
phase characteristics  
of whole spot  
position control

